LiFePO₄ Smart Battery

12,8V 40Ah

8 Bluetooth



BATTERY FEATURES

- Long lasting superpower, LiFePO4 has up to 10 times more cycles than comparable lead acid batteries
- Lithium Iron Phosphate is the safest lithium technology on the market
- The intelligent Battery Management System (BMS) controls and balance the battery cells, protects the battery against over-charging, over-discharging and has temperature protection
- Double, triple or even quadruple the capacity or voltage through parallel or serial pairing

- Low self-discharge and the ability to charge quickly and efficiently
- Twice the usable capacity (100% DOD) than comparable lead acid batteries
- The battery can be mounted in any position and weighs only 40% of the weight of a comparable lead acid battery
- With our smart Bluetooth® app you can easily view and monitor all relevant data of your LiFePO4 battery

VE-SPBT-1240

DLTIUM

VOLTIUMENERGY.COM

APPLICATIONS







TRANSPORT



 \bowtie

UTILITY



DATA CENTER

SOLAR



WIND

CERTIFICATES

- CE certificate
- UL 1642 cell certificate
- IEC 62133 cell certificate
- UN 38.3 certified

App Store

Google play

 ISO9001:2015 - Quality management systems



😵 Bluetooth

DOWNLOAD THE APP OF VOLTIUM ENERGY

With our Bluetooth® app, you can view and monitor the current status of your LiFePO4 battery!

LiFePO₄ Smart Battery

12,8V 40Ah

8 Bluetooth"

BATTERY SPECIFICATIONS

GENERAL SPECIFICATIONS	
Nominal Voltage	12,8V (4S)
Rated Capacity (CC 0.2C to 10V)	40Ah
Nominal Energy	512Wh
Internal Resistance	≤40mΩ
Terminal type	тп
Cycle Life (@DOD 100% at IC and $\pm 25^{\circ}$ C)	>3000
Cycle Life (@DOD 100% at 0.2C and $\pm 25^{\circ}$ C)	6000
Connection options	4 in series OR 4 in parallel
Communication	Bluetooth®

MECHANICAL CHARACTERISTICS

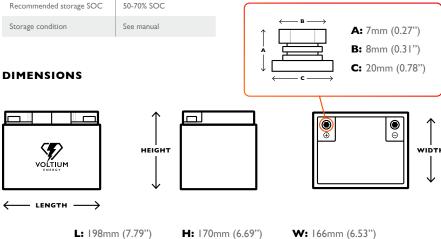
Dimension	Length 198±3mm
	Width 166±3mm
	Height 170±3mm
Weight	Approx. 5.5Kg
Housing material	ABS

STORAGE SPECIFICATIONS

Storage Temperature	0-25°C
Self-discharge rate	≤3% per month
Recommended storage SOC	50-70% SOC
Storage condition	See manual

CHARGE SPECIFICATIONS	
Battery operation temperature range @charging	0~45°C
Normal charge voltage	14.6 ±0.1∨
Recommended float charge voltage (for Standby use)	13.8 ±0.1∨
Max charge current	40A at ±25°C
Recommended charge current	0.2C
Charge Cut-off Voltage	15V ±0.2V

DISCHARGE SPECIFICATIONS Discharging temperature range -20~60°C Output Voltage Range 10.0~14.6V 50A at ±25°C Max discharge current 0.2C Recommended discharge current Pulse discharge current 170A withstand 3s 10.0V Discharge Cut-off voltage -20°C / 70% capacity 0°C / 90% capacity Discharge temperature characteristics 25°C / 100% capacity 60°C / 102% capacity



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To ensure safe and efficient operation always refer to the latest edition of our Technical Datasheet, as published on our website.

VOLTIUMENERGY.COM



BMS TECHNICAL SPECIFICATIONS

Over-charge protection for each cell (delay time) 3.75V ±0.05V (2s) Over-charge release for each cell (delay time) 3.6V ±0.05V (2s)	OVER CHARGE		
cell (delay time) 3.5V ±0.05V (2s) Over-charge release for each cell (delay time) 3.6V ±0.05V (2s) Over-charge release method When voltage is und release voltage Over-discharge protection for each cell (delay time) 2.5V ±0.05V (2s) Over-discharge release method 2.8V ±0.05V (2s) Over-discharge release method 2.8V ±0.05V (2s) Over-discharge release method Charging recover Over-discharge release method Charging recover Over-discharge release method S.8V ±0.05V (2s) Over-discharge release method Charging recover Over-discharge release method Charging recover Over-discharge release method Ist protection / 55A ±5A (10) Over-current release Discharge over-current Protection (delay time) Ist protection / 170A ±5A (32) Over-current release Charge or auto release (60) Over-current release Charge or auto release (60) BATTERY TEMPERATURE Ist protection / 170A ±5A (32) Gelease method (delay time) Ist protection / 170A ±5A (32) Release method (delay time) Ist protection / 170A ±5A (32) Gover / 45°C ±2°C (2s) Ist protection / 170A ±5A (32)	OVER CHARGE		
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Release method (delay time) When temperature is o release	Kelease method (delay time)		
SHORT CIRCUIT PROTECTION		отести	
Function condition			
	Short circuit delay time		50-500 ms
		R	emove load for the
Remove load for the	Release mehod (delay time) sl	nort circuit protection



VE-SPBT-1240